
The minimization problem is solved by integrating a system of ODEs.

[called by: [solvers](#).]

[calls: [solvers](#).]

overview

1. The evolution is described mathematically as a system of coupled, first-order equations:

$$\frac{\partial \mathbf{x}}{\partial \tau} = - \frac{\partial E}{\partial \mathbf{x}}, \tag{1}$$

where τ is an artificial time, \mathbf{x} is the free coil parameters.

2. The integration was originally performed using [NAG:D02BJF](#).
3. It's now implemented with [ODEPAC](#). And the source code is in [ode.F90](#).
4. The minimization is controlled by [DF_tausta](#), [DF_tauend](#), [DF_xtol](#) and [DF_maxiter](#).

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[Focus subroutines](#);
